

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-38. (canceled)

39. (New) A semiconductor device comprising:

a semiconductor substrate;

a channel region formed in said semiconductor substrate;

source and drain regions in said channel region wherein said channel region is located between said source and drain regions;

at least first and second pinning regions formed in said semiconductor substrate wherein said first and second pinning regions are formed in a vicinity of a boundary between said channel region and at least one of the source and drain regions;

a gate insulating film formed over the channel region; and

a gate electrode over the channel region with the gate insulating film interposed therebetween,

wherein said first and second pinning regions are arranged along said boundary and are of a conductivity type which is opposite to said source and drain regions.

40. (New) The semiconductor device according to claim 39 wherein said first and second pinning regions contain an impurity at a concentration within a range of  $1 \times 10^{17}$  to  $5 \times 10^{19}$  atoms/cm<sup>3</sup>.

41. (New) The semiconductor device according to claim 39 wherein a width of said first and second pinning regions along said boundary is 0.05 to 0.3  $\mu\text{m}$ .

42. (New) The semiconductor device according to claim 39 wherein an interval between said first and second pinning regions is 0.04 to 0.6  $\mu\text{m}$ .

43. (New) A semiconductor device comprising:  
a semiconductor substrate;  
a channel region formed in said semiconductor substrate;  
source and drain regions in said channel region wherein said channel region is located between said source and drain regions;  
at least first and second pinning regions formed in said semiconductor substrate wherein said first and second pinning regions are formed in a vicinity of a first boundary between said channel region and the source region;  
at least third and fourth pinning regions formed in said semiconductor substrate wherein said third and fourth pinning regions are formed in a vicinity of a second boundary between said channel region and the drain region;  
a gate insulating film formed over the channel region; and  
a gate electrode over the channel region with the gate insulating film interposed therebetween,  
wherein said first and second pinning regions are arranged along said first boundary and said third and fourth pinning regions are arranged along said second boundary, and a conductivity type of said first, second, third and fourth pinning regions are opposite to that of said source and drain regions.

44. (New) The semiconductor device according to claim 43 wherein said first and second pinning regions contain an impurity at a concentration within a range of  $1 \times 10^{17}$  to  $5 \times 10^{19}$  atoms/cm<sup>3</sup>.

45. (New) The semiconductor device according to claim 43 wherein said third and fourth pinning regions contain an impurity at a concentration within a range of  $1 \times 10^{17}$  to  $5 \times 10^{19}$  atoms/cm<sup>3</sup>.

46. (New) The semiconductor device according to claim 43 wherein a width of said first and second pinning regions along said boundary is 0.05 to 0.3  $\mu\text{m}$ .

47. (New) The semiconductor device according to claim 43 wherein a width of said third and fourth pinning regions along said boundary is 0.05 to 0.3  $\mu\text{m}$ .

48. (New) The semiconductor device according to claim 43 wherein an interval between said first and second pinning regions is 0.04 to 0.6  $\mu\text{m}$ .

49. (New) The semiconductor device according to claim 43 wherein an interval between said third and fourth pinning regions is 0.04 to 0.6  $\mu\text{m}$ .

50. (New) A semiconductor device comprising:  
a semiconductor substrate;  
a channel region formed in said semiconductor substrate;  
source and drain regions in said channel region wherein said channel region is located between said source and drain regions;  
at least first and second pinning regions formed in said semiconductor substrate wherein said first and second pinning regions are formed in a vicinity of a boundary between said channel region and at least one of the source and drain regions;  
a gate insulating film formed over the channel region; and  
a gate electrode over the channel region with the gate insulating film interposed therebetween,

wherein said first and second pinning regions are arranged along said boundary and are of a conductivity type which is opposite to said source and drain regions, and

wherein said first and second pinning regions are overlapped by said gate electrode at least partly.

51. (New) The semiconductor device according to claim 50 wherein said first and second pinning regions contain an impurity at a concentration within a range of  $1 \times 10^{17}$  to  $5 \times 10^{19}$  atoms/cm<sup>3</sup>.

52. (New) The semiconductor device according to claim 50 wherein a width of said first and second pinning regions along said boundary is 0.05 to 0.3  $\mu\text{m}$ .

53. (New) The semiconductor device according to claim 50 wherein an interval between said first and second pinning regions is 0.04 to 0.6  $\mu\text{m}$ .

54. (New) A semiconductor device comprising:  
a semiconductor substrate;  
a channel region formed in said semiconductor substrate;  
source and drain regions in said channel region wherein said channel region is located between said source and drain regions wherein each of said source and drain regions are provided with a metal silicide layer on a surface thereof;  
at least first and second pinning regions formed in said semiconductor substrate wherein said first and second pinning regions are formed in a vicinity of a boundary between said channel region and at least one of the source and drain regions;  
a gate insulating film formed over the channel region; and  
a gate electrode over the channel region with the gate insulating film interposed therebetween,

wherein said first and second pinning regions are arranged along said boundary and are of a conductivity type which is opposite to said source and drain regions.

55. (New) The semiconductor device according to claim 54 wherein said metal silicide layer comprises titanium silicide.

55. (New) The semiconductor device according to claim 54 wherein said first and second pinning regions contain an impurity at a concentration within a range of  $1 \times 10^{17}$  to  $5 \times 10^{19}$  atoms/cm<sup>3</sup>.

56. (New) The semiconductor device according to claim 54 wherein a width of said first and second pinning regions along said boundary is 0.05 to 0.3  $\mu\text{m}$ .

57. (New) The semiconductor device according to claim 54 wherein an interval between said first and second pinning regions is 0.04 to 0.6  $\mu\text{m}$ .